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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,692	07/07/2008	Thomas W. Melcher	2207.0004	3736
84278 Robert D. Atkir	7590 11/24/201 1S	EXAMINER		
605 W. Knox R Tempe, AZ 852		CULBRETH, ERIC D		
Tempe, AZ 632	204		ART UNIT	PAPER NUMBER
			3616	
			NOTIFICATION DATE	DELIVERY MODE
			11/24/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

main@plgaz.com moneill@plgaz.com

Office Action Summary		Ар	plication No.	Applicant(s)				
		10	/577,692	MELCHER, THO	MELCHER, THOMAS W.			
		Ex	aminer	Art Unit				
		Eri	c Culbreth	3616				
Period fo	The MAILING DATE of this communi or Reply	cation appears	on the cover sheet with	the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE Mansions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum stare to reply within the set or extended period for reply- reply received by the Office later than three months are ded patent term adjustment. See 37 CFR 1.704(b).	AILING DATE of 37 CFR 1.136(a). unication. tutory period will app will, by statute, caus	OF THIS COMMUNICA In no event, however, may a repl oly and will expire SIX (6) MONTH the the application to become ABAN	ATION. y be timely filed S from the mailing date of this IDONED (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) file	d on <i>01 Septe</i>	mber 2010					
-	•		on is non-final.					
3)		<i>'—</i>		s prosecution as to th	e merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims	·	•					
- 4\⊠	Claim(s) <u>26-31 and 33-48</u> is/are pen	ding in the apr	lication					
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	i) Claim(s) <u>26-31 and 33-45</u> is/are allowed.							
·)⊠ Claim(s) <u>46-48</u> is/are rejected.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.							
-	Claim(s) are subject to restric	tion and/or ele	ction requirement.					
	on Papers							
	-	Evaminar						
•	The specification is objected to by the		d or b) abjected to by	the Eveminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including			• •	`ED 1 121/d\			
11)	The oath or declaration is objected to			•	• •			
	under 35 U.S.C. § 119	by the Exami	nor. Note the attached C	onice Action of John 1	10 102.			
	-		"	40() () ()				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* (application from the internation See the attached detailed Office action	•		ooiyad				
	see the attached detailed Office action	ווטו מ וואנ טו נוי	e certilled copies flot re	ceivea.				
	w.)							
Attachmen 1) Notice			4) Intension Com	omary (PTO 412)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	TO-948)		nmary (PTO-413) Mail Date				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08)	,	· 	rmal Patent Application				
Pape	r No(s)/Mail Date		6)					

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DETAILED ACTION

Drawings

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because marked up drawings were submitted on 9/1/10 but no replacement drawings were submitted (the changes in the marked up drawings are acceptable). Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 46-48 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recitation of "effective" volume is still indefinite. Applicant has given an explanation of the term in the remarks, but as claims are given their broadest reasonable interpretation, without an explanation from the actual specification of what the term means the metes and bounds of the term are indefinite. Although text from the specification may be cited to give the term clear meaning the claim, or the claim language may be amended to define the term positively, no new matter may be entered.

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Allowable Subject Matter

4. Claims 26-31 and 33-45 are allowed.

5. Claims 46-48 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Culbreth whose telephone number is 571/272-6668. The examiner can normally be reached on Monday-Thursday, 9:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on 571/272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eric Culbreth Primary Examiner Art Unit 3616

/Eric Culbreth/ Primary Examiner, Art Unit 3616